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Samsung's OMS (Optical Media Solution) Customer Support Website (http://www.samsung-ODD.com) offers the latest versions of firmware for ODD products, user instructions and product information.

The Statement

http://www.

http://www.

Select Languages
English

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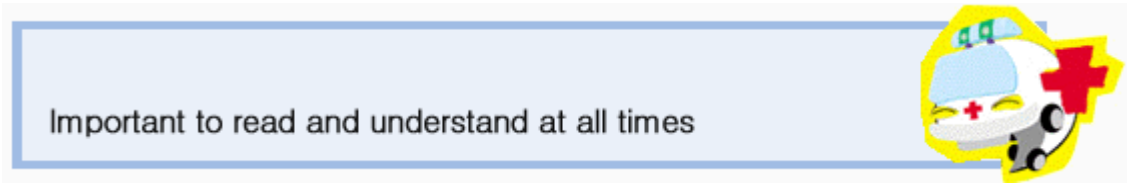


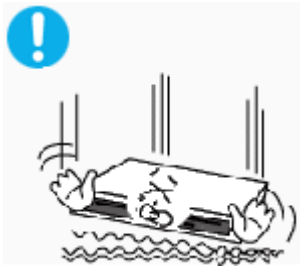
Warning	This symbol indicates explanations about extremely dangerous matters. If users ignore this symbol and handle the device the wrong way, serious injury or death could result.
Caution	This symbol indicates explanations about dangerous matters. If users ignore this symbol and handle the device the wrong way, damage to home or property could result.
	Important to read and understand at all times.
	Do not disassemble.

	Always make sure that the disc does not have a crack before use. If the disc has a crack (especially around the center hole), it is recommended to make a copy immediately and use the copy instead. When a cracked disc is used continuously, the size of the crack is likely to grow and this will eventually result in irreparable damage to the disc.

UP

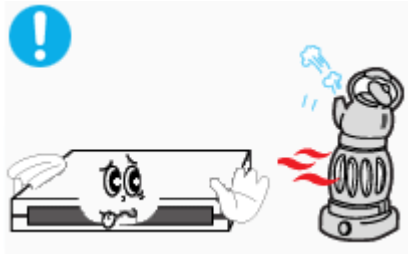
Select Languages
English

Installation

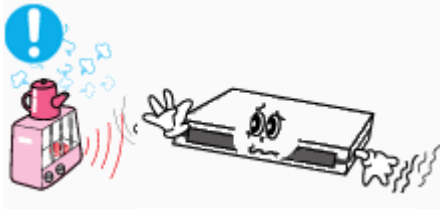


- Do not drop the drive, and protect it from severe shocks.
  - It can damage the drive or cause it to malfunction.

- Do not place the drive in direct sunlight.



- Avoid low or high-temperature environments.

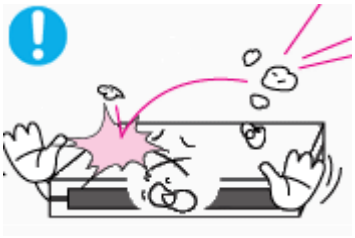


- Avoid high-humidity environments.

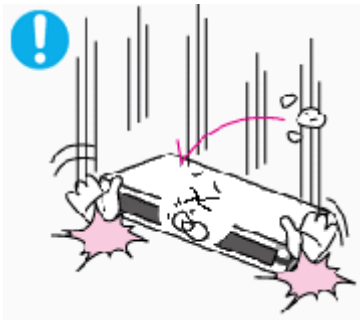
UP

Select Languages
English

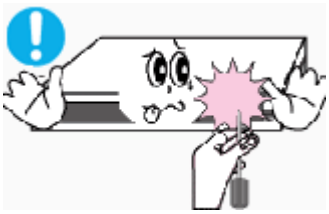
Operating



- Handle with caution to prevent damage from an external shock.



- Do not drop the drive, and protect it from severe shocks.
  - It can damage the drive or cause it to malfunction.

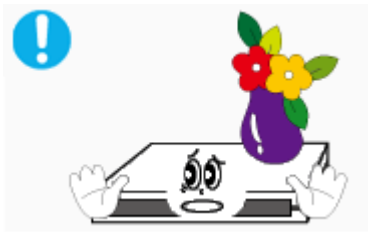


- Do not move the drive while in operation.
  Make sure to close all working programs before attempting to open and always use the open button.

Caution Do not insert a pin into the emergency eject hole while in operation.

- Do not use cracked, distorted or damaged discs.

Caution In particular, a disc with a crack on the inner tracks may break while in use.



- Do not put any heavy things on the drive.

- Always check to be sure the disc is not cracked before use. If you find a crack on the disc (especially around the center hole), make a copy of the disc immediately and use the copy instead. Continued use of a cracked disc will cause the crack to become bigger, resulting in irreparable damage to the disc.

- Do not use low-quality discs (illegal, scratched, damaged, etc.).

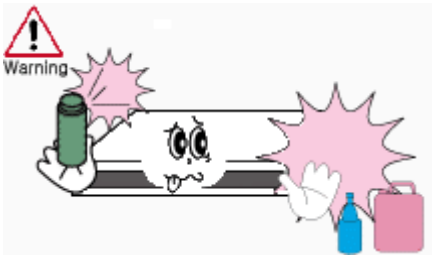
- **Samsung is not responsible for any loss resulting from the use of such discs.**

UP

Select Languages
English

Others

- Never allow food particles or foreign substances to enter the drive case.



- To protect against the risk of fire, do not spill such liquids as alcohol and benzene on the drive.

- Do not disassemble, attempt to repair or modify the device without an express approval as directed in the manual.
  - To reduce the risk of damage, electric shock and fire.

UP

Select Languages
English

RoHS

Samsung Eco-mark
The Samsung's own Eco mark helps consumers to easily understand that Samsung develops eco-friendly products. This mark represents Samsung's continuous effort to develop eco-friendly products.

RoHS (Restriction of the use of certain hazardous substances in electrical and electronic equipment)The RoHS, the environmental regulation announced by European Union, restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in products put on the market in The European Union after July 1, 2006.

WEEE

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

UP

Select Languages
English

Front

1. LED
2. Eject Button
3. Emergency Eject Hole

- Design and specifications are subject to change without prior notice.

Back

1. USB Interface Port

Components

- Slim External DVD Writer
- Quick installation Guide
- Application Software & User Manual CD
- USB-Y-Cable
  - The type of accessories varies depending on a product model.
    and some accessories described herein are subject to change without notice.

UP

Select Languages
English

System Requirements

You need to have an IBM-compatible PC with the following specifications.

Item	Description
OS	Microsoft Windows 2000(SP4)/XP(SP 1.0 or above)/Vista
CPU	Pentium4 2.0GHz or above
RAM	512MB or more (Windows 2000/XP), 1GB (Windows Vista)
Interface	USB 2.0 Interface connector

The drive's performance may not be able to achieve its maximum performance according to the PC system environment.

Select Languages
English

Features

Versatile Multimedia Features

- DVD-R : Read / Write
- DVD+R : Read / Write
- DVD-ROM : Read
- DVD-R DL : Read / Write
- CD-RW : Read / Write / Rewrite allowed
- DVD-RAM : Read/ Write/ Rewrite allowed
- DVD-RW : Read / Write / Rewrite allowed
- DVD+RW : Read / Write / Rewrite allowed
- DVD+R DL : Read / Write
- CD-R : Read / Write
- Supports reading various type of discs.

See table below for details

	Support disc	Writable	Rewritable	Read
CD	CD-STAMP	×	×	O
	CD-R	O	×	O
	CD-RW	O	O	O
DVD	DVD-STAMP	×	×	O
	DVD+R	O	×	O
	DVD-R	O	×	O
	DVD-RW	O	O	O
	DVD+R(DL)	O	×	O
	DVD-R(DL)	O	×	O
	DVD+RW	O	O	O
	DVD-RAM	O	O	O

Writable : Write once and read a lot of times.

Rewritable : Read and write data once or more times.

UP

DVD Recommended Disc Types

DVD-R Media

Taiyo-Yuden, TDK, MKM, Hitachi, Maxell, FujiFilm, Panasonic, RiTEK, CMC

DVD-RW Media

TDK, MKM, JVC, RiTEK, CMC

DVD+R Media

RICOH, Taiyo-Yuden, MKM, RiTEK, CMC, Prodisc, Optdisc

DVD+RW Media

RICOH, MKM, RiTEK, CMC

DVD+R DL

MKM

DVD-R DL

MKM

DVD-RAM

Maxell, Taiyo-Yuden

CD Recommended Disc Types

CD-R Media

Taiyo-Yuden, RICOH, MKM, Hitachi, Maxell, FujiFilm, RiTEK(Phtharo), CMC, Pioneer, Princo, TDK

CD-RW Media

RICOH, MKM, RiTEK, CMC

HS CD-RW Media

RICOH, MKM, CMC

US CD-RW Media

MKM

Buffer underrun free technology

What is " buffer underrun free technology "?

A technology to prevent **"buffer underrun"** errors in which the data transmission speed is not as fast as the data writing speed when data is being recorded on a disc.

Reading / Writing Speed

Format / Speed	Read	Write
DVD-RAM	PCAV 5X	PCAV 5X
DVD-R	CAV 8X	PCAV 8X
DVD-RW	CAV 8X	ZCLV 6X
DVD-R DL	CAV 8X	ZCLV 6X
DVD+R	CAV 8X	PCAV 8X
DVD+RW	CAV 8X	ZCLV 8X
DVD+R DL	CAV 8X	ZCLV 6X
DVD-ROM	CAV 8X	-
CD-R	CAV 24X	PCAV 24X
CD-RW	CAV 24X	ZCLV 16X
CD-ROM	CAV 24X	-

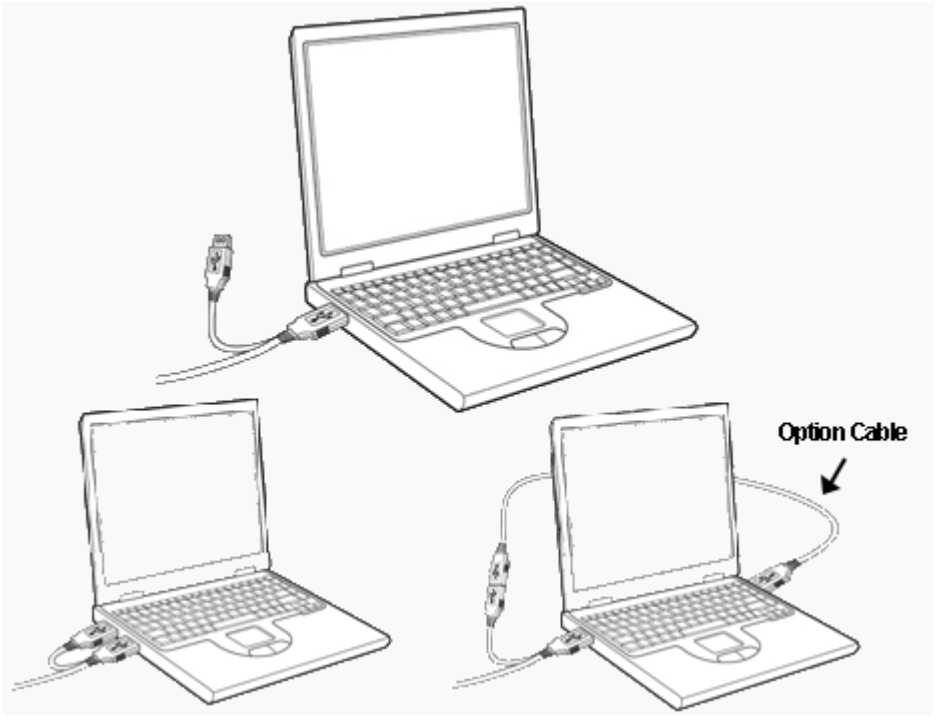
UP

Select Languages
English

Installing Drive

1. **Connect the necessary cable, then turn on the drive**
   - Connect the USB cable to the drive ' s USB connector.

2. **Connect the other end of the of the USB cable to your computer.**



3. Normal operation is not guaranteed if using the USB HUB or unspecified cables.
4. PCs with insufficient USB bus power may not work properly if using a single-port USB bus power.
   To avoid this, use 2 ports in conjunction for power enhancement.

If your computer is not equipped with a USB connector, install a USB interface card.

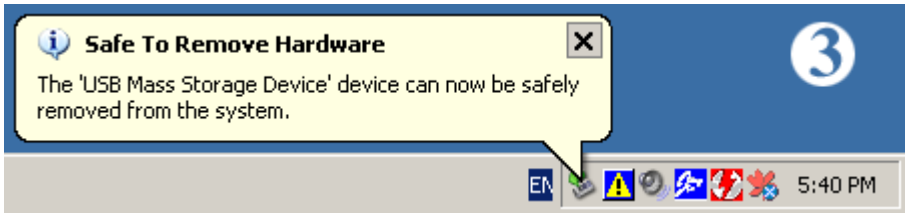
UP

Select Languages
English

Removing USB Converter Cable

This drive uses Plug & Play function designed for Windows. Follow the procedures below to use a USB cable.

1. Close all the software programs which are currently being used.
2. Click the icon at the right bottom of the screen as shown in the picture.



3. Disconnect the USB cable.

Warning

Do not disconnect the USB cable while the drive is in operation or the computer is getting started.

UP

Select Languages
English

Checking USB 2.0 and Installing USB Driver

Checking USB 2.0

In order to use this drive at the speed of USB 2.0 on PCs not supporting USB 2.0, you need to install USB 2.0 adapter card. Otherwise, this drive will operate by connecting USB 1.1, but within the speed range of USB 1.1. You can check the type of USB 2.0 adapter card for your PC as follows.

Installing USB Driver

Windows 2000/XP/Vista

Right-click on My Computer icon on your desktop and select properties. Then, click on Hardware tab and Device Manager Button in order, and then check the information. If a yellow "exclamation point" appears next to Universal Serial Bus Controller, contact the card or PC manufacturer.

UP

Select Languages
English

Firmware Update

1. Go to http://www.samsung-ODD.com
2. Click Firmware on the menu bar (in the upper right-hand corner).
3. Click Firmware Downloads. Check for your drive model and start downloading.

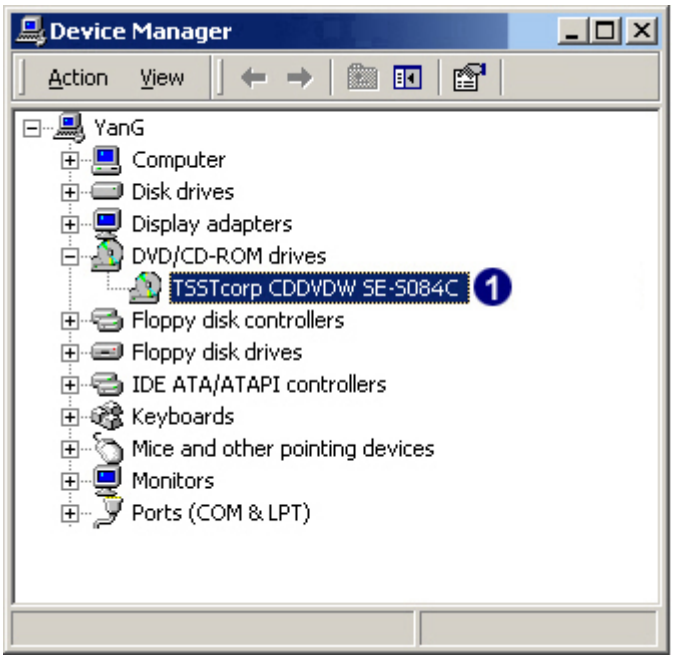
UP

Select Languages
English

Confirming the Installation of Device Driver

Confirming Using [Device Manager]

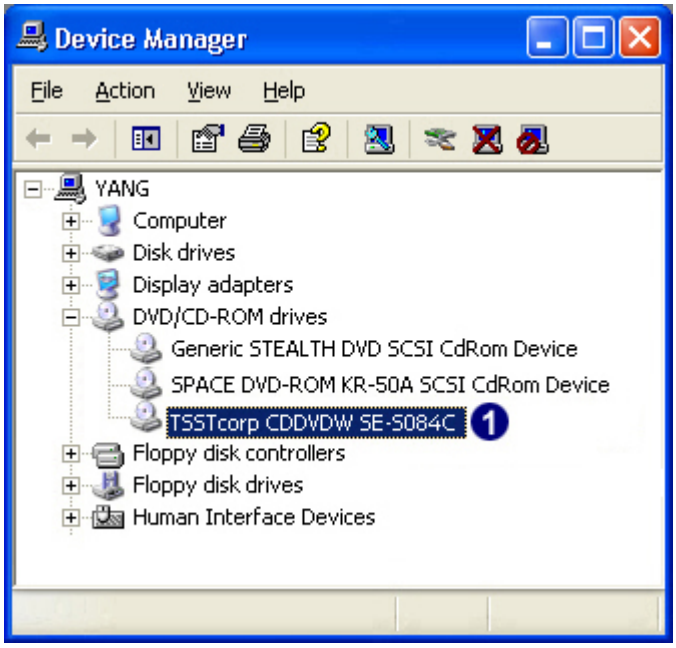
Windows 2000



1. Click [Start] - [Settings] - [Control Panel] - [System].
2. Click on the [Hardware] tab in the System Properties window and then click on the [Device Manager] tab.
3. Click DVD-W drive in the Device Manager window.

   ❶ in the left picture appears if the driver is installed properly.

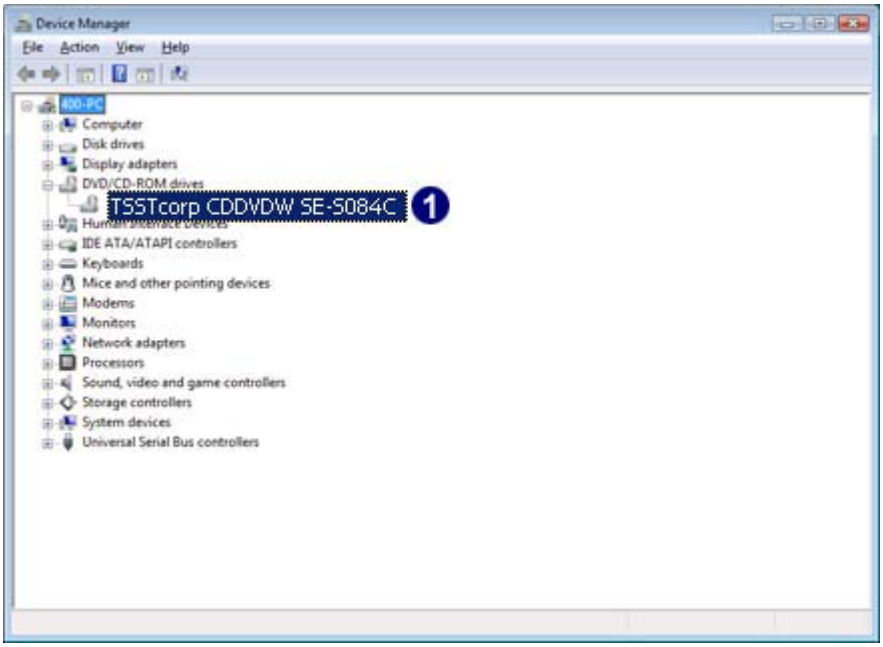
Windows XP



1. Go to [Start] - [Settings] - [Control Panel] - [Performance and Maintenance].
2. Click [System] icon in the Performance and Maintenance window.
3. Click [Hardware] tab in the System Properties window.
4. Click the [Device Manager] button.

❶ in the left picture appears if the driver is installed properly.

Windows Vista



1. Click [Start] - [Control Panel] - [System] - [Device Manager].
2. Click DVD-W drive in the Device Manager window.

❶ in the left picture appears if the driver is installed properly.

UP

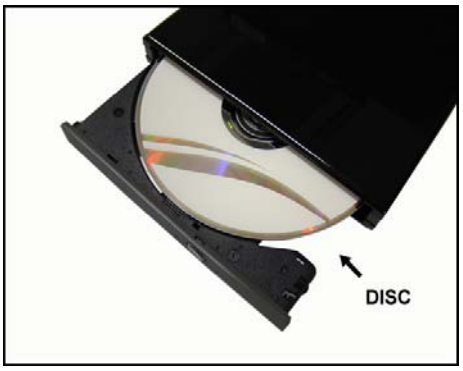
Select Languages
English

How to Use the Drive

When the LED is Green, do not turn the PC off or remove the Slim External DVD Writer as it may cause damage in the drive.

How to Use a Horizontally Installed Drive

You can use **3.15 Inch or 4.72 Inch (8cm or 12cm) disc.**
The drive cannot read the disc properly if any part of the disc is placed outside the tray guiding line.



Caution - Do not use the external drive vertically.

UP

Select Languages
English

How to Use DVD±R/RW and Other Discs

The Slim External DVD Writer allows writing DVD±RW discs using Nero Express and enables "packet writing" (high-speed recording) using InCD.
The drive also allows writing DVD±R discs using Nero Express.

Unauthorized copying of DVD or software titles is illegal and the individuals that make illegal copies will be held responsible for any copyright infringement.
Using low-quality discs may lengthen the recording time or not supporting due to reduction in double speed.

- You can use the Slim External DVD Writer to playback music CDs, CD-ROM, CD-R/RW, or DVD-ROM discs, like a CD-ROM drive or a DVD-ROM drive. If your computer recognizes the [CD-ROM] icon designated to the Slim External DVD Writer insert a CD-ROM or a DVD-ROM disc and access the drive.

  (The actual drive letter of the Slim External DVD Writer may vary depending on the user's system environment.)

- If you want to use this product to play a commercial DVD-Video title('DVD title')

  - Most of DVD titles in the market adopt the Dolby sound system.
    You are required to install software that supports Dolby decoding on your PC before you can play a DVD title using the DVD writer purchased.
  - How to obtain commercial software supporting Dolby decoding.
    Visit the website of Nero: http://www.nero.com
    (You can use other compliant software if you want to.)

DVD Region Protection Coding (RPC):

The RPC feature is supported on DVD players and is used with DVD-video discs (such as movies). Currently, the motion picture industry has divided the world into different regions or zones that correspond to the regional markets into which the motion picture industry releases movies. Simply put, RPC codes are placed on movies marketed throughout the world, based on the region of the world inwhich they are being sold. These RPC codes help control and prevent pirating of new movies into other motion picture regions prior to their true release dates within those markets.
The Slim External DVD Writer supports RPCphase II. In the RPC-2 mode, the local code can be changed by users. RPC-2is selected by default for the Slim External DVD Writer.
You can change the region code up to five times via an MPEG application.

Please contact your dealer or local SAMSUNG representative if you wish to change the local code more than five times.

UP

Select Languages
English

This part of the manual is to prevent damages or data loss.
Read carefully and use the device properly.

Storing the Disc

- Do not place it under the direct sunlight.
- Place it so that it sits on its side on a flat surface.
- Do not scratch or place a label on the disc.
- Handle the disc with caution to prevent damage from external shock.
- Do not expose it to severe temperature fluctuations.
  (Exposure to such environment may cause congealing.)

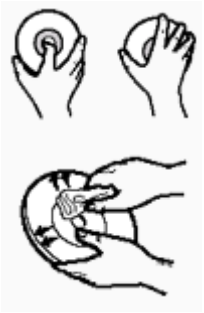
UP

Select Languages
English

This part of the manual is to prevent damages or data loss.
Read carefully and use the device properly.

Cleaning the Disc

- Do not touch the surface of the disc.
  Place your fingers on the edge of the disc to hold.



- Clean the disc lightly with soft cotton cloth, starting from the center and move to the edge of the disc.

- Use only disc-cleaning liquids. Do not use benzene, paint thinner, or any other solvents.

If the disc surface becomes dirty with fingerprints, foreign substances or dust, the disc may not function properly.

UP

Select Languages
English

When the LED blinks

LED	Meaning
Disc Lead-In	Green: Blinks every 0.3 seconds.
Writing	Green: Blinks every 0.3 seconds.
Reading	Green: Blinks every 0.3 seconds.
Standby	Off
No Disc	Off

The indicator light turns off when the drive is not in use (standby) after disc lead-in.

UP

Select Languages
English

Troubleshooting

Problem	Meaning / Solution
The eject key is not working properly.	See if the Drive is on. If the disc still won't eject with the power-on, remove USB cable and insert an pin into the emergency eject hole to open.
The PC is not working properly.	See if the drive is properly connected to the PC. See if the floppy disc remains in the PC.
The drive is not working properly.	See if the drive is connected properly to the PC. See if the device drive program has been installed properly.
No sound is heard from an audio disc.	Check that the sound card is operational. Check the condition of the disc and wipe the surface of the disc clean before use.
The computer doesn't recognize the drive.	See if the USB cable is not connected properly between the computer USB port and the drive. Ensure that both connectors of the USB cable is properly connected to the USB ports on the computer and the drive. Can be an OS problem. Try to reinstall the Windows OS program.
The system dosen't read the disc.	See if the system detects the drive. Make sure you use the types of discs that are supported by the drive. See if the LED turns into green. Make sure you inserted the disc with the label facing up. Make sure you are using the right program for disc playback. See if the disc is clean. See if any congealing has occurred. Make sure the region code of the drive matches the disc number.

You can confirm the use of software at the site of our customer support.
Address: www.samsung-ODD.com
- See " SUPPORT > Download Center > Web User Manual ”
- See “ INFORMATION > Flash Manual > Recording Software ”

UP

Select Languages
English

Caution: Possible Errors

External DVD Writer record data on the disc by applying laser light onto the surface of the disc, and therefore writing errors may occur if you use a damaged disc, for example. Be sure to eliminate the following error-causing elements before you start writing.
* The following settings are recommended for all External DVD Writer.

1. **Avoid a situation that requires multitasking, and remove turn off the screen saver.**
   - A buffer under run may occur if the system multitasks while the External DVD Writer CD-RW drive is writing/erasing.
2. **Block any outside attempt to access the host PC during a writing session.**
   - An error may occur if another user accesses the printer connected to his/her the system via the network during a writing session.
3. **Disable the CD auto-run feature of the CD.**
   - Inserting an auto-run-enabled CD in to another drive connected to the same system during a writing/erasing session may cause an error.
4. **It is recommended that you use the image file format when you write a large number of small-sized files.**
   - When there are a large number of small-sized files to write, the system's transfer rate drops and the Superlink feature works at a more frequent rate, resulting in lower writing quality.
   - If you are doing a CD-to-CD write, it is not necessary to check to see if you have available space on your hard disc beforehand.

     However, in the case of image files, it is recommended that you be sure you have at least twice the amount of space needed for the data on your hard disc, as image files are copied to the hard disc before they are copied to the media.
5. **Do not use more than one type of writing software.**
   - Before you install a writing program, be sure to first uninstall existing versions of the program or other writing program(s) and reboot the system first .

     (The Windows operating system may be damaged if you install another version while the English version remains on the system.)

- **Use only the writing software provided by Samsung.**
  You may experience writing errors if you use with other writing programs.

The Write Speed for a Disc Can be Restricted If

1. **The disc has bad properties data, and or there are other discs with different properties available under the same ID.**

   The drive's write strategy is set in a way that the drive examines to examine the disc properties and determines the optimal write conditions for those properties.

   For example, many disc makers do not bother to insert property information distinguishing 48X discs from 32X discs. Since the two types of discs have the same properties data, although they actually have different properties, it is often impossible to respond to the situation with a single write strategy. In order to ensure stable writing, it is necessary to downgrade the write speed.

   If discs from two different disc makers have the same write speed according to the labels, but actually have different write speeds, it is necessary to downgrade the write speed to ensure stable writing.

2. **Samsung's Standards for Write Speed Restriction.**

Standard 1	Write speed is downgraded for the sake of write stability, if high-speed discs available in the market have particularly bad properties data, or there are low-speed discs available under the same ID.
Standard 2	Speed-restricted discs go through further examination and adjustments later. If high-speed discs are available under the same ID with as low-speed discs (speed restricted at present), the speed restriction is removed when

the low-speed counterparts become no longer unavailable in the market under the same ID.

You may experience lower write quality in case if you use disc products by some disc makers which that are not registered with the product's firmware.
Therefore, it is recommended that you use only discs by recommended companies. Even, and even if the write session is completed successfully, check the write quality before you put the disc in storage, especially in case of an important data backup.
(Samsung is not responsible for any loss resulting from data backup failure.)

We update the list of supported media on a regular basis through our firmware upgrades.

UP

Select Languages
English

Specifications

Category		SE-S084C Slim External DVD Writer		
DISC	Usable Discs	**DVD** : DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-ROM, DVD-Video, DVD+R (DL), DVD-R (DL), DVD-RAM **CD** : CD-ROM, CD-R, CD-RW, CD-DA, CD+E(G) CD-MIDI, CD-TEXT, CD-ROM XA, Mixed Mode CD CD-I, CD-I Bridge (Photo-CD, Video-CD), Multisession CD (Photo-CD, CD-EXTRA, Portforio)		
	Disc Diameter	4.72 Inch or 3.15 Inch (120mm or 80mm)		
Interface Support	Interface Port	USB 2.0		
ACCESS TIME (Random)	CD-ROM	160ms		
	DVD-ROM	160ms		
Data Transfer Speed (Max)	**Format/ Speed**	**Read**	**Write**	
	DVD-RAM	PCAV 5X	PCAV 5X	
	DVD-R	CAV 8X	PCAV 8X	
	DVD-RW	CAV 8X	ZCLV 6X	
	DVD-R DL	CAV 8X	ZCLV 6X	
	DVD+R	CAV 8X	PCAV 8X	
	DVD+RW	CAV 8X	ZCLV 8X	
	DVD+R DL	CAV 8X	ZCLV 6X	
	DVD-ROM	CAV 8X	-	
	CD-R	CAV 24X	PCAV 24X	
	CD-RW	CAV 24X	ZCLV 16X	
	CD-ROM	CAV 24X	-	
Buffer Memory		2MB		
Drive Installation		Horizontal		
Operating Environment	Temperature	41°F ~ 104 °F (5°c ~ 40°C)		
	Humidity	10% ~ 80% (RH)		
Dimension(Width x Height x Length)		141mm X 19mm X 157mm		
Weight		370g		

Note

- Can not playback or record on both sides of a dual layer disc simultaneously.
- The read/write capacity of the supported discs depends on the condition of the disc and the recording format of the drive. Therefore, the read/write quality may not be perfect.
- Please firmly place the product onto the PC before use.
- Specifications are subject to change without notice.

FCC information to the user

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION
Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Laser Standard
EN 60825-1:1994/A2:2001

The product specifications above may be changed to improve device performance without prior notice.

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